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The present invention provides an electromagnetic probe, comprising at least one assembly comprising in
5 combination:

- a coaxial type connection;
- a ground plane connected to the outer sheath of the coaxial connection;
- a reflector cone placed facing the ground plane and shaped to define impedance that is at least
10 substantially constant along its profile; and
- a dielectric medium interposed at least in part between the reflector cone and the ground plane.

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